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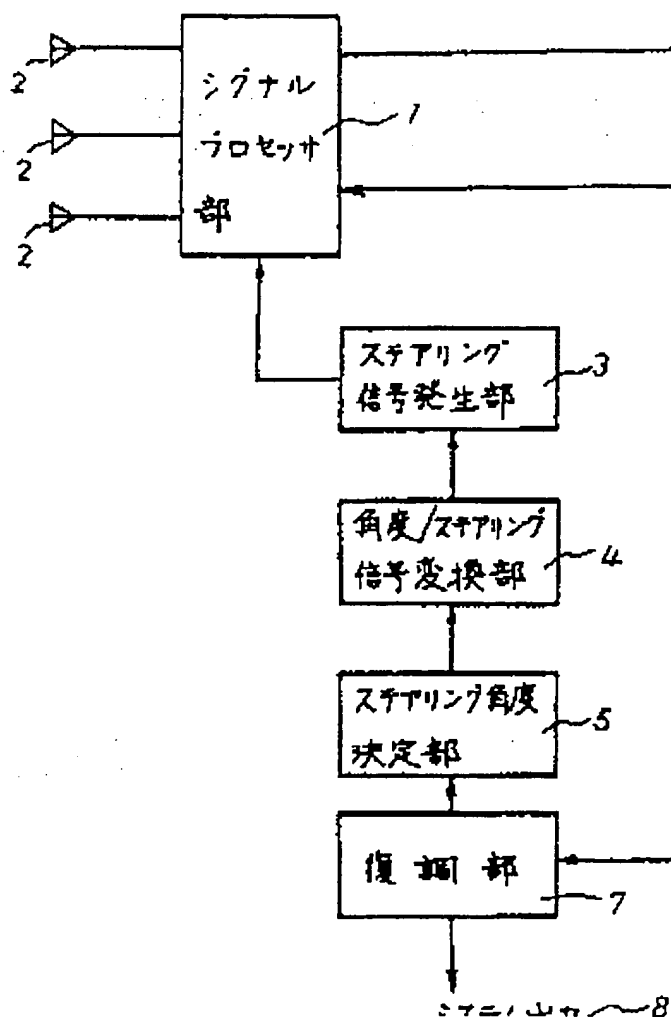
(74) Representative:

(54) ADAPTIVE ANTENNA
SYSTEM

(57) Abstract:

PURPOSE: To automatically set a steering signal to an optimum value even if the direction of a desired wave is unknown by providing plural antenna elements arranged in an array and a signal processor section connected to them.

CONSTITUTION: The signal processor section 1, in its inside, uses the MSN algorithm and receives only a radio wave coming from a prescribed direction among signals received by an antenna element 2. Then a processor output 6 outputted from the signal processor section 1 is demodulated by a demodulation section 7 and a steering angle deciding section 5 decides a beam angle coincident with the direction of a desired angle in response to the demodulated signal. Then a directivity characteristic of the antenna element 2 is controlled by the steering signal of a steering signal generating section 3 generating a signal corresponding to the decided beam angle. Thus, even if the incoming direction of the desired wave is



direction of the desired wave is changed, the optimum steering signal is always generated and the major beam is directed to the desired wave incoming direction.

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